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TEV	AA	3,710,923	01/16/73	Fromme et al.							
DEV	AB	3,734,263	05/22/73	Dirks							
JEV,	AC	3,815,723	06/11/74	Wright et al.							
JEV	AD	3,901,376	08/26/75	Dardaine et al.							
TEV	AE	3,990,569	11/09/76	Aiuola	<u> </u>						
TEV	AF	4,029,194	06/14/77	Feurstein et al.	-			<u></u>			
JEV	AG	4,033,403	07/05/77	Seaton et al.	-						
TEV	ΑН	4,040,302	08/09/77	Katarao							
TEV	ΑI	4,044,886	08/30/77	Sender							
TEV	AJ	4,261,236	04/14/81	Verjux							
TEV	AK	4,266,652	05/12/81	Bald				<u> </u>			
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JEV	AA	4,340,137	07/20/82	Foster							
JEV	AB	4,450,950	05/29/84	Foote, Jr.			· -				
JEV	AC	4,506,779	03/26/85	Seragnoli							
TRV	AD	4,524,858	06/25/85	Maxey							
TRU	AE	4,549,647	10/29/85	Cosse	T						
TEV	AF	4,585,126	04/29/86	Paddock et al.							
JEV	AG	4,603,770	08/05/86	Hartness							
JEV	AH	4,667,809	05/26/87	Raybuck	-						
JEV,	Al	4,680,919	07/21/87	Hirama et al.							
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JEV	AB	3,722,656	03/27/73	Loomis, Jr. et al.							
TEV	AC	5,135,102	08/04/92	Sjogren et al.							
JEV.	AD	5,184,712	02/09/93	Leypold et al.							
JEV	AE	5,667,056	09/16/97	Kimmet	-						
JEV	AF	5,207,309	05/04/93	Simpkin et al.							
JEV	AG	5,226,211	07/13/93	Jones							
JEV	AH	5,231,926	08/03/93	Williams et al.	<u> </u>						
TEV	AI	5,269,119	12/14/93	Tolson							
TEV	AJ	5,275,275	01/04/94	Boldrini et al.							
JEV	AK	5,439,091	08/08/95	Mason							
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TEV	AA	5,558,198	09/24/96	Juarez			~		
カミン	AB	5,617,944	04/08/97	McTaggart					
JEV	AC	5,628,614	05/13/97	Pazdernik et al.			¬		•
TEV	AD	5,653,327	08/05/97	Buday, Jr. et al.					
TRV	AE	5,823,319	10/20/98	Resnick et al.					
TEV	AF	6,092,979	07/25/00	Miselli				_	
JEV	AG	6,223,887 B1	05/01/01	Andou					
TEN	AH	6,227,345 B1	05/08/01	Miyamoto					
TEV	AI	6,435,331 B1	08/20/02	Olson et al.					
TEV	AJ	6,511,065 B1	01/28/03	Cote et al.					
TEV	AK	6,581,750 B1	06/24/03	Tweedy et al.					
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